

Venesse Air Curtain



- [] Water heater
- [] Electric heater
- [] Air-only
- [] Opening width of up to 3m

Features

- One power series, for openings up to 3m in width
- Nominal air curtain length 2.5m
- Water heater, electrical wire heater or air only version
- Electronic remote control with LED signals
- Universal double-sided design
- 24-month warranty

Venesse air curtains are designed for the barrier free separation of two areas with differing climatic conditions.

These air curtains are particularly suitable for installation in shopping centres, banks, hotels, restaurants, administrative buildings and so on. The air curtain should be used in an environment free of rough dust, grease, chemical fumes and other impurities.

The Venesse is available in white RAL 9010 as standard but is available in stainless steel or any RAL colour on request.

Primary parameters

- The air curtain should be installed indoors in a dry area with ambient temperatures ranging from 0°C up to +40°C with a relative humidity up to 80%.
- The IP rating of the air curtain is IP20.
- All air curtains with electric heaters are fitted with a safety thermostat with automatic reset and an emergency thermostat with a manual reset.
- The warm-water exchangers are designed for a maximum operating temperature of +100°C and a maximum operating pressure of 1.6MPa.



Venese Air Curtain

Air curtain type	Door width* (Two-sided installation) [m]	Air capacity [m³/h]	Noise** [dB(A)]	Heater power [kW]	Heater voltage/current [V/A]	Fan voltage/current [V/A]	Weight [kg]
VCV-B-25S	3 (6)	5500	56.0	-	-	230/6.5	95
VCV-B-25E		5400	55.5	24.0	400/33.5	230/6.5	103
VCV-B-25F		5400	55.5	36.0	400/50	230/6.5	103
VCV-B-25W		5100	55.0	41.1***	-	230/6.5	104

* Limited distance when air flow speed decreases to 2 m/s. Applies to the highest capacity type under optimum conditions.

** Sound pressure measured 3 m from the air curtain intake.

*** At the temperature gradient of 90/70 and temperature of intake air equal to +18 °C.

Electric heater parameters

Air curtain type	Air capacity [m³/h]	Heater power [kW]	Outlet temperature Δt [°C]
VCV-B-25E	5400	24	13.33
VCV-B-25F	5400	36	20.00

Water exchanger parameters for water temperature gradient of 80/60°C

Air curtain type	Air capacity [m³/h]	Heater power [kW]	Outlet temperature [°C]	Water flow [l/s]	Water pressure loss [kPa]
VCV-B-25W	5100	33.8	37.6	0.41	7.0

• Temperature of intake air: +18 °C

Water exchanger parameters for water temperature gradient of 82/71°C

Air curtain type	Air capacity [m³/h]	Heater power [kW]	Outlet temperature [°C]	Water flow [l/s]	Water pressure loss [kPa]
VCV-B-25W	5100	41.16	42	0.88	28

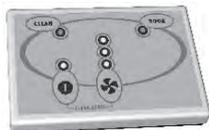
• Temperature of intake air: +18 °C



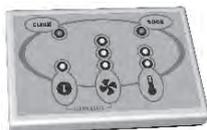
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Control

VENESSE Comfort air curtains are operated by a remote control that is connected to the air curtain by a communication cable. VENESSE Comfort air curtains can be connected and operated from a building's central control system using an RS 485 interface. For more information on how to connect an air curtain to a building's central control system, contact your supplier



DM
(Air curtain with water heater or without heater)



DM
(Air curtain with electric heater)

	Type of controller	Manual	Manual
	Regulation of air output	3 speeds	3 speeds
	Regulation of electric heater	NO	2 levels
	Possibility of connecting a door contact	YES	YES
	Connection of a special thermostat	YES (one of the mentioned items only)	YES (one of the mentioned items only)
	Connection of a timer		
 CLEAN	Air curtain cleaning interval indication based on operating hours	YES	YES
 DOOR	Door switch state indication	YES	YES
	Aftercooling electric heater	NO	30 s
	Chaining air curtains	Up to 6	Up to 6
	Light indication of selected function	YES	YES
	Controller connection to air curtain	Low-voltage cable (12 V) with max. length of 50 m	Low-voltage cable (12 V) with max. length of 50 m

The controls allow three fan speeds.

Air curtains equipped with electric heaters allow a choice of two heat levels.

On air curtains with water heaters, heat regulation must be provided separately.

Water heater control

The air curtain is not equipped with an integrated water control, this needs to be designed separately.

Basic – by throttling.

TV1 Thermostatic Valve - The valve controls the flow of the warm water supply into the air curtain depending on the temperature of air leaving the air curtain. One valve is required for each air curtain.

Economical – by diverting.

ZV3 Three Way Zone Valve (open/closed) with servo drive - Each ZV3 Zone valve should be selected with either a TER-K (channel thermostat) or TER-P (room thermostat).

The valve switches the warm water supply in to the air curtain and back towards the heat source depending on the

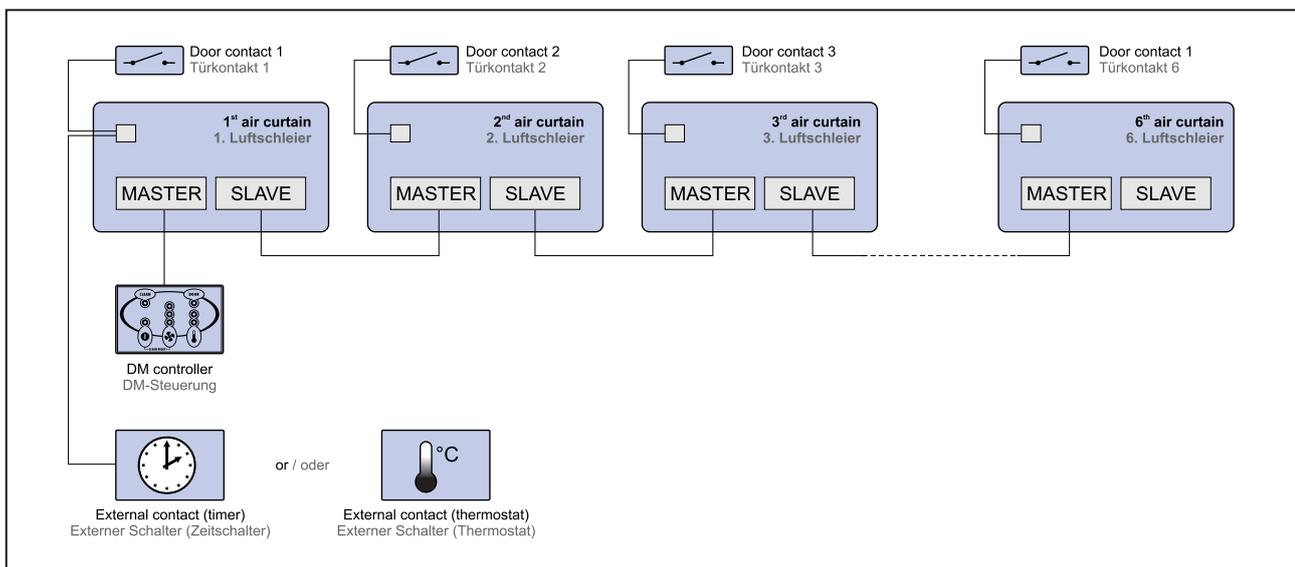
temperature of the air leaving the air curtain or depending on the room temperature. One valve is required per air curtain.

Precise – by mixing.

SMU Mixing Point, OSMU-01-6A mixing point controller (max temperature 110°C), P12L1000 channel sensor or P10L1000 room sensor.

The mixing system controls the ratio of supply and return heated water into the air curtain depending on the temperature of air leaving the air curtain and/or depending on the room temperature.

One mixing point may be used for multiple air curtains provided they are an identical length and that the exchangers are connected in a parallel arrangement.



Optional accessories

Connection cable

The communication cable is designed for connecting the DM/DA controller to the air curtain or for interconnecting chained air curtains.

The standard length of the cable delivered with the air curtain is 5m. Other lengths are available based on the coding key provided opposite.



KABEL-05M

03, 05, 08, 10, 15, 20, 30, 40 - cable length in m (unless otherwise stated in the order, the cable is a standard 5m) Maximum cable length is 50m.

KABEL - connection cable

Three-way valve with servo drive ZV-3



Flexible connection hoses OH-01-1/1-xxx



Mixing point SMU-xx-xx



Door switch for air curtains fitted with the DM and DA controls DK1



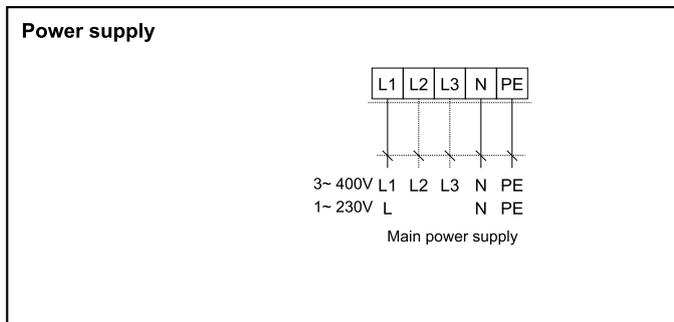
Timer with a weekly program SH-TM-848



Room thermostat TER-P

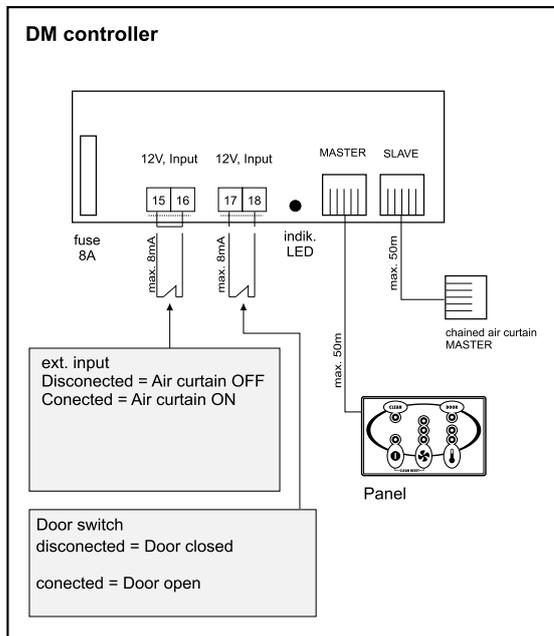


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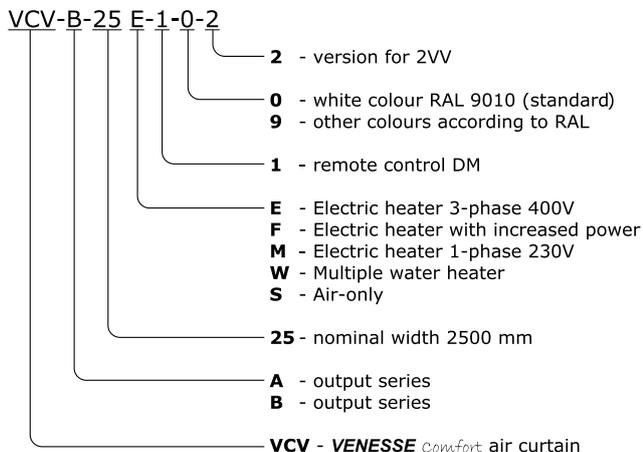


Wiring diagrams

All connection schematics shown in the catalogue are for information only. When assembling the product, follow only the values, instructions and schematics shown on the product itself or delivered with the product.



Key to coding



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JS has a policy of continually improving products and performance. Actual specifications might vary from those shown.

JS Air Curtains

Artex Avenue, Rustington, LITTLEHAMPTON,
West Sussex, BN16 3LN, UK.

Tel: +44 (0)1903 858656 • Fax: +44 (0)1903 850345

Email: sales@jsaircurtains.com



Part of the JS Humidifiers Group

